

# BAM-1020 Audit Sheet

Model: **BAM-1020**

Serial Number: **492-1371-T21292**

Audit Date: **1/1/18**

Audited By: **M. Porter**

## Flow Audits

Flow Reference Standard Used:	Model: <b>N<sub>2</sub>/C<sub>2</sub>/D<sub>2</sub></b>	Serial No: <b>146294</b>	Calibration Date: <b>9/26/17</b>
Temperature Standard Used:	Model: <b>1</b>	Serial No: <b>1</b>	Calibration Date: <b>1</b>
Barometric Pressure Standard Used:	Model: <b>1</b>	Serial No: <b>1</b>	Calibration Date: <b>1</b>

Leak Check Value: as found: **1.1 lpm** as left: **0.7 lpm**

Ambient Temperature: as found: **13.7 C** as left: **13.0 C** N/A ☐  
 Barometric Pressure: as found: **763 mmHg** as left: **761 mmHg** N/A ☐  
 Flow Rate (Actual Volumetric): as found: **16.9 lpm** as left: **16.7 lpm** N/A ☐  
 Flow Rate (EPA Standard): as found: **slpm** as left: **slpm** N/A ☒

## Mechanical Audits

Pump muffler unclogged: as found ☐ as left ☒ PM10 particle trap clean: as found ☐ as left ☒ N/A ☐  
 Sample nozzle clean: as found ☐ as left ☒ PM10 drip jar empty: as found ☐ as left ☒ N/A ☐  
 Tape support vane clean: as found ☐ as left ☒ PM10 bug screen clear: as found ☐ as left ☒ N/A ☐  
 Capstan shaft clean: as found ☐ as left ☒ PM2.5 particle trap clean: as found ☐ as left ☒ N/A ☒  
 Rubber pinch rollers clean: as found ☐ as left ☒ Inlet tube water-tight seal OK: as found ☒ as left ☒  
 Chassis ground wire installed: as found ☒ as left ☐ Inlet tube perpendicular to BAM: as found ☒ as left ☒

## Analog Voltage Output Audit

DAC Test Screen	BAM Voltage Output	Logger Voltage Input
0.000 Volts	Volts	Volts
0.500 Volts	Volts	Volts
1.000 Volts	Volts	Volts

## Membrane Audit

LAST m (mg):	
ABS (mg):	
Difference (mg):	
% Difference:	

## Flow Control Range

Flow Setpoint	BAM Flow
15.0 LPM	<b>14.7/15.7</b>
16.7 LPM	<b>16.0/16.7</b>
18.4 LPM	<b>18.0/18.4</b>

## Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock Time/Date			FLOW TYPE			AP		
RS232 baud			Cv			FRI		
STATION #			Qo			FRh		
RANGE			ABS			Password		
BAM SAMPLE			μ sw			Cycle Mode		
MET SAMPLE			K Factor			RH Control		
OFFSET			BKGD			RH Setpoint		
CONC UNITS			STD TEMP			Datalog RH		
COUNT TIME			HEATER			Delta-T Control		
FLOW RATE			el			Delta-T Setpoint		
CONC TYPE			Errors			Datalog Delta-T		

## Last 6 Errors in BAM-1020 Error Log

Error	Date	Time	Error	Date	Time
1 Tape Error		15:00	4 Tape Error		13:00
2 Maintenance		14:48	5 Tape Error		12:00
3 Tape Error		14:00	6 Tape Error		11:00

Audit Notes: Unit in tape error upon arrival. New Tape roll installed. Calibrated.  
 Data downloaded. Tape Test 3X = pass. Weather data downloaded. Clocks sync'd.